"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

S/076/61/035/001/010/022
B004/B060

Cathodic polarization at a joint ...

and 5 Soviet-bloc references.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad Institute of Technology imeni Lensovet)

SUBMITTED: May 6, 1959

Card 3/4

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

S/076/61/035/001/010/022
B004/B060

Cathodic polarization at a joint ...

Table 1

Table 1

Выделяющийся компонент a)	pH	25°		40°		55°		70°	
		a	α	a	α	a	α	a	α
Fe	3,5	0,620	0,49	0,566	0,56	0,500	0,62	0,445	0,75
	1,8	0,630	0,48	0,572	0,50	0,525	0,50	0,478	0,69
	1,5	0,650	0,43	0,585	0,54	0,535	0,50	0,500	0,54
Co	3,5	0,627	0,41	0,560	0,46	0,517	0,48	0,442	0,60
	1,8	0,656	0,37	0,583	0,46	0,557	0,38	0,493	0,43
	1,5	0,710	0,33	0,608	0,44	0,557	0,38	0,520	0,37
H_2	1,8	0,634	0,50	0,629	0,50	0,620	0,50	—	—
	1,5	0,592	0,50	0,577	0,50	0,563	0,50	—	—

Legend to Table 1. a) liberated component

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYAN, A.L.

Relation between the overal and partial polarization curves in the cathodic formation of an alloy. Zhur. fiz. khim. 35 610-611 Mr '61.

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.
(Polarization(Electricity)) (Alloys) (Electroplating)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYAN, Aleksandr Leonovich, doktor tekhn. nauk; OVCHINNIKOVA, Tamara Mikhaylovna, inzh.; KHEYFETS, V.L., red.; FREGER, D.P., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Measuring acidity in the cathode layer during the electrolysis of aqueous solutions] Izmerenie kislotnosti v prikatodnom sloe pri elektrolize vodnykh rastvorov. Leningrad, 1962. 18 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Zashchitnye pokrytiia, no.7) (MIRA 16:3)
(Electrolysis) (Hydrogen-ion concentration)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

FEDOT'YEV, N.P., prof., doktor khim. nauk; BIBIKOV, N.N.; VYACHESLAVOV, P.M.; GRILIKHES, S.Ya.; ALABYSHEV, A.F., doktor tekhn.nauk, prof., retsenzent; ROTINYAN, A.L., doktor tekhn.nauk, prof., red.; LEYKINA, T.L., red.izd-va; CHFAS, M.A., red.izd-va; PETERSON, M.M., tekhn. red.

[Electrolytic alloys]Elektroliticheskie splavy. Pod red. N.P.Fedot'eva. Moskva, Mashgiz, 1962. 311 p. (MIRA 15:11)

(Electroplating) (Alloys)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

FEDOT'YEV, N.P., prof.; ALABYSHEV, A.F.; ROTINYAN, A.L.; VYACHESLAVOV, P.M.; ZHIVOTINSKIY, P.B.; GAL'NBEK, A.A.; MORGACHEVSKIY, A.G., red.; ERLIKH, Ye.Ya., tekhn. red.

[Applied electrochemistry]Prikladnaia elektrokhimiia. Leningrad, Goskhimizdat, 1962. 638 p. (MIRA 15:12)
(Electrochemistry)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

OVCHINNIKOV, P.M., TARAN, L.A., KOTINYAN, A.L.

Change of acidity in the catholyte layer during electrolysis of nickel chloride solutions. Zhur. fiz. khim. 36 no.9:1909-1913 S '62. (MIRA 17:6)

1. Kafedra elektrokhimii Leningradskogo tekhnologicheskogo instituta imeni Lensoveta.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYAN, A. L.; SYSOYEVA, V. V.

Cathodic polarization in iron electrodeposition. Izv. vys. ucheb. zav.: khim. i khim. tekh. 5 no.5:782-787 '62. (MIRA 16:1)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra elektrokhimii.

(Iron plating) (Polarization(Electricity))

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

GAL'NBEK, A.A.; ROTINYAN, A.L.

Investigating the effect of various factors on current efficiency in the electrolysis of fused lead chloride. Zhur.prikl.khim. 35 no.4:787-795 Ap '62. (MIRA 15:4)

1. Kafedra elektrokhimii Leningradskogo tekhnologicheskogo instituta imeni Lensoveta.
(Lead chloride) (Electrolysis)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

S/080/62/035/006/011/013
D204/D307

AUTHORS: Gal'nbeck, A.A. and Rotinyan, A. L.

TITLE: The mechanism of metallic losses in electrolysis of fused salts

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 6, 1962, 1314-1322

TEXT: The lowering of current efficiency of Pb and Zn, in the electrolysis of $PbCl_2$ and $ZnCl_2$ respectively were determined in relation to current density (D) and temperature, under various conditions, to explain the mechanism of such losses. The latter increased linearly with D between 0 - 0.32 A/cm^2 and were also higher at higher temperatures; e.g. for Pb at 0.24 A/cm^2, losses were $\sim 10^{-4}$ g.atom/cm^2 of cathode hr at 550°C, rising to $\sim 11 \times 10^{-4}$ at 750°C. The losses occurring when D = 0 are ascribed to a "mechanical" cause, specifically to the dissolution of metal in the melt, transport to the surface and volatilization or oxidation. The extent of

Card 1/3

...the melt, ...the mixed va-

...khimii Leningradskogo ...

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

The mechanism of ...

S/080/62/035/006/011/013
D204/D307

kogo instituta imeni Lensoveta (Department of Electrochemistry of the Leningrad Technological Institute imeni Lensovet)

SUBMITTED: July 22, 1961

Card 3/3

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYAN, A.L.; ZEL'DES, V.Ya.; SHOSHINA, I.A.

Carbon in electrolytic nickel. Zhur.prikl.khim. 35 no.7:1542-1546 Jl '62. (MIRA 15:8)
(Nickel plating) (Carbon—Analysis)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

S/080/62/035/011/003/011
D287/D307

AUTHORS: Sysoyeva, V.V., and Rotinyan, A.L.

TITLE: The effect of chlorine ions on the kinetics of the cathodic deposition of an iron - nickel alloy

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 11, 1962, 2430 - 2435

TEXT: The present investigation was carried out because of the absence of information regarding the effect of Cl' ions on the kinetics of cathodic deposition of an Fe-Ni alloy during gradual transition from the sulphate to the chloride electrolyte. Sulphate, sulphate - chloride and chloride electrolytes, containing 1.06 mole Ni/1 and 0.19 mole Fe/1, were used. The experiments were carried out in a 200 ml glass cell, in a water bath maintained at 25°C. The pH of the solutions was controlled with a glass electrode and maintained at pH 3 (± 0.2). Total and partial polarization curves were plotted for each electrolyte. The alloys were analyzed for their Fe-content and, if required, for the Ni-content (using Trilon B). It was found that the Fe-content in the alloy increased (under the

Card 1/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

given experimental conditions) with increasing D_c (cathodic current density) at low current densities; it reached a maximum and then started to decrease slightly. On transition from the sulphate to the chloride electrolytes the layer and, consequently, also the coefficient of coarseness of the surface were found to increase. Substitution of SO_4'' ions by Cl' in the electrolyte resulted in a displacement of the total as well as of the partial polarization curves of the Fe and Ni separation. The partial polarization curves were used for calculating the adsorption potential which is observed during the deposition of the alloy from the chloride electrolyte. The calculated value is in good agreement with literature data determined by other methods. There are 8 figures and 3 tables.

ASSOCIATION: Kafedra elektrokhimii Leningradskogo tekhnologicheskogo instituta imeni Lensoveta (Department of Electrochemistry of the Leningrad Technical Institute imeni Lensovet)

SUBMITTED: February 16, 1962

Card 2/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

S/080/62/035/012/004/012
D444/D307

AUTHORS: Sysoyeva, V.V. and Rotinyan, A.L.

TITLE: Depolarization and overpolarization effects in the formation of an Fe-Ni electrodeposited alloy

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 12, 1962, 2653-2661

TEXT: The present investigation was devoted to the study of the mechanism of electrodeposition of iron-nickel alloys from sulphate electrolytes. Electrolysis was carried out under various conditions, the alloys produced being analyzed and polarization curves being obtained (both by the ordinary and the potentiostatic method). Mixed electrolytes contained 1.25 moles (Fe^{2+} + Ni^{2+}) per liter. For a given electrolyte and temperature the potential was a linear function of the logarithm of current density. The slope of the line is given by $1/\alpha$: for the mixed deposition this is equal to the sum of half the slopes for the separate depositions. With high nickel and very low iron concentration nickel is deposited

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

preferentially: as iron concentration rises the polarization curves first merge and then reverse their position. With increasing temperature the partial polarization curves of nickel and iron move in the direction of electro-positive potential; at 25-40°C the movement is about equal, but on increasing temperature to 70°C the nickel curve moves more and the alloy is enriched in nickel. For iron, depolarization occurs on discharge into the alloy, and this increases with rising temperature. For nickel, overpolarization occurs, but this practically disappears as the temperature rises to 70°C. These effects are associated with the alloy crystal-lattice structure and when two crystal lattices exist the values of overpolarization for nickel and depolarization for iron are independent of alloy composition. However, the effects cannot be fully explained solely by the change in crystal-lattice structure depending on alloy composition. There are 10 figures and 3 tables.

ASSOCIATION: Kafedra elektrokhimii LTI im. Lensoveta (Department of Electrochemistry of the LTI im. Lensovet)

SUBMITTED: January 8, 1962

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

SYSOYEVA, V.V.; ROTINYAN, A.L.

Calculation of depolarization and superpolarization effects in the formation of a galvanic alloy. Dokl. AN SSSR 144 no.5: 1098-1099 Je '62. (MIRA 15:6)

1. Leningradskiy tekhnologicheskiy institut imeni Lenosoveta. Predstavleno akademikom A.A.Grinbergom.
(Alloys) (Polarization (Electricity))

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

L 17903-63 EWP(q)/EWT(m)/BDS AFFTC MJW/JD

ACCESSION NR: AP3003770 S/0080/63/036/006/1291/1296

AUTHORS: Simonov, G. A.; Smirnova, L. K.; Rotinyan, A. L. 51

TITLE: Cathode polarization during precipitation of tellurium from alkali solutions

SOURCE: Zhurnal prikladnoy khimii, v. 36, no. 6, 1963, 1291-1296

TOPIC TAGS: cathode polarization, tellurium, alkali solution

ABSTRACT: Investigation of cathode polarization during precipitation of tellurium from an alkali electrolyte at different temperatures, concentration of tellurium and concentration of alkali in electrolyte - shows that, with an increase of alkali concentration in the electrolyte, the effective current decreases and increases with a rise in temperature. In alkali-concentrated electrolyte effective current linearly depends on concentration of tellurium in electrolyte. In diluted electrolyte, the increase of effective current takes place faster. It is assumed that cathode process depends on the change of the nature of ions. Orig. art. has: 8 figures, 2 formulas and 1 table.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technical Institute.

Card 1/1

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

OVCHINNIKOVA, T.M.; PLEKHOV, I.M.; ROTINYAN, A.L.

Oscillographic measurement of the pH value in a cathode layer.
Zhur.prikl.khim. 36 no.6:1350-1352 Je '63. (MIRA 16:8)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Hydrogen-ion concentration) (Electrodes) (Oscillography)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

KOZHEVNIKOVA, N.M.; ROTINYAN, A.L.

Overvoltage of hydrogen evolution on tantalum. Zhur. prikl. khim. 36 no.9:1950-1955 D '63. (MIRA 17:1)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

OVCHINNIKOVA, T.M.; ROTINYAN, A.L.

Measurement of acidity in the cathodic layer by the glass electrode method. Zhur.fiz.khim. 37 no.2:443-444 F '63. (MIRA 16:5)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Hydrogen-ion concentration) (Nickel chloride)
(Electrodes glass)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

L 18310-63 EWP(q)/EWT(m)/BDS AFFTC/ASD/ESD-3 RH/JD/JG

ACCESSION NR: AP3004977 S/0076/63/037/008/1818/1824

AUTHORS: Rotinyan, A. L.; Kozhevnikova, N. M.

TITLE: Electrochemistry of niobium. 1. Overvoltage of hydrogen evolution on niobium.

SOURCE: Zhurnal fiz. khimii, v. 37, no. 8, 1963, 1818-1824.

TOPIC TAGS: electrochemistry, niobium, hydrogen, slow discharge theory

ABSTRACT: The effect of surface current, temperature, and acid concentrations on overvoltage during evolution of hydrogen on niobium was studied. The relation between the degree of electrode saturation and amount of overvoltage is explained. Hydrogen overvoltage on niobium is shown to diminish and the parameter of the crystal lattice to increase as the metal is saturated with hydrogen. The hydrogen overvoltage assumes a steady value after formation of the Beta-phase with lattice parameters a = 3.44-3.45 kX. This is attained by long term cathodic polarization. The dependence of the overvoltage upon lg i_k and upon the pH of the solution is in conformity with the slow discharge theory. The temperature coefficient of hydrogen overvoltage at moderate current densities is 1-1.5 mv/degree. The

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

L 18310-63

ACCESSION NR: AP3004977

hydrogen exchange current and the standard hydrogen exchange current on niobium, as well as the activation energy of hydrogen discharge at the equilibrium potential have been calculated. "We are very grateful to O. M. Danilovich who provided the X-ray analysis." Orig. art. has: 7 figures, 2 tables, 2 equations.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad technological institute)

SUBMITTED: 22Aug61 DATE ACQ: 06Sep63 ENCL: 00

SUB CODE: CH NO REF SOV: 009 OTHER: 001

Card 2/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

SIROTA, V.I.; LAYNER, A.L.

Mechanism of the cathodic deposition of cobalt. Zhur. prikl. khim. 37 no.9:1951-1958 S '64.

(MIRA 17:10)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

[illegible], A.I.; [illegible], [illegible].

Purification of electrolytes by an electrochemical method. Zhur. prikl. khim. 37 no.9:2052-2055 S '64. (MIRA 17:10)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

SHOSHINA, I.A.; ROTINYAN, A.L.

Inclusion of certain impurities in the cathodic deposit during the electrolytic preparation of high-purity nickel. TSvet. met. 37 no.10:20-26 O '64. (MIRA 18:7)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYAN, A.L.; OVCHINNIKOVA, T.M.; SIMONOVA, M.V.; SYSOYEVA, V.V.

Dependence of the degree of alkalization of the cathode electrolyte layer on the current density. Zhur. fiz. khim. 38 no.12: 2966 D '64. (MIRA 18:2)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYAN, A.L., ICFEB, B.Sh.

Effect of conditions of electrolysis on the content of gases in electrolytic nickel. TSvet. met. 37 no.11:42-46 N '64. (MIRA 18:4)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

[illegible]TINYAN, A.L.; SHOSHINA, I.A.

Mechanism of the reaction of cobalt hydroxide precipitation. Izv. vys. ucheb. zav.; tsvet. met. 7 no.6:56-63 '64. (MIRA 18:3)

1. Leningradskiy tekhnologicheskiy institut, kafedra elektrokhimicheskikh proizvodstv.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

L 39756-65 EWT(m)/EWP(t)/EWP(z)/EWP(b) Pad IJP(c) JD/HW

ACCESSION NR: AP4047422 S/0136/64/000/010/0020/0026

AUTHORS: Shoshina, I.A.; Rotinyan, A.L.

TITLE: The inclusion of certain impurities in the cathode deposit during the electroextraction of high-purity nickel

SOURCE: Tsvetny*ye metally*, no. 10, 1964, 20-26

TOPIC TAGS: nickel, electroextraction, cathode deposit, impurity, electrolyte, flow rate viscosity, convective diffusion

ABSTRACT: The authors discuss the maximum concentration of Pb, Sb, Bi, Tn, As and Zn in the electrolyte permissible in the electrowinning of highest purity Ni under different conditions of electrolysis. They suggest a method which makes it possible to compute these concentrations readily and accurately. They contend that each microgram of impurity per liter of electrolyte leads to the formation of 0.00007% (at.) impurity. Consequently, if the desired critical content of an impurity were to be a maximum 0.0001% (weight), its content in the electrolyte would have to be a maximum 0.04 mg/l for Pb, Sn, Zn, Sb and 0.03 mg/l for Bi and As. The electrolyte in

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

L 39756-65
ACCESSION NR: AP4047422

all tests was composed of 60 g/l Ni ($NiSO_4$); 40 g/l Na_2SO_4; 50 g/l NaCl; 5 g/l H_3BO_3; pH = 2.3 to 2.4. The rate of flow of the electrolyte influenced the purity of the cathode deposit rather conspicuously. The authors investigated its effect and the circulation rate was varied from 20 to 150 ml/amp·hr. The cathode current density was 240 amp/m^2 and the cathode cell temperature 60°C. Experimental results coincided with calculations: all investigated specimens discharged at a critical current in the electroextraction of Ni from a sulfate - chloride electrolyte. With a circulation rate of 80 ml/amp·hr the effect on the rate of flow was less appreciable. Apparently, the factors which lower the velocity constant of convective diffusion lower the amount of impurities in the cathode deposit. The greater the electrolytic viscosity, the lower the constant of the rate of convective diffusion and the lower the rate of the inclusion of impurities in the cathode deposit. It follows that an increase in the electrolyte viscosity enhances the purity of the metal. Observations of the behavior of the impurities under the effect of temperatures showed that their contents in the deposit increases at raised temperatures. Orig. art. has: 5 figures, 2 tables and 7 equations.

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYAN, A.L.; SIMONOVA, M.V.

Cathodic-anodic behavior of the cobalt electrode in cobalt sulfate solutions at different temperatures. Elektrokhimiia 1 no.12:1407-1415 D '65. (MIRA 19:1)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

SIMONOVA, M.V.; ROTINYAN, A.L.

Mechanism of the process of cathodic evolution of hydrogen in a simultaneous discharge of hydrogen and cobalt ions. Elektrokhimiia 2 no.1:88-92 Ja '66. (MIRA 19:1)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta. Submitted December 26, 1964.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

MOSHNYAN, A.I.; KHEYFETS, V.L.; TRIVOTINSKIY, P.B.

Contribution to the theory of electrolysis of alkali metal chlorides in baths with a filtering diaphragm. Zhur. prikl. khim. 38 no.1:78-83 Ja '65. (MIRA 18:3)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

L 59536-65 EWI(m)/EPF(c)/EWP(w)/EPF(n)-2/EWA(d)/T/EWP(t)/EWP(b) Pr-4/Pu-4
IJP(c) JD/JG

ACCESSION NR: AP5016823 UR/0364/65/001/006/0664/0668
541.138.3:546.11

AUTHOR: Kozhevnikova, N. M.; Rotinyan, A. L.

TITLE: Additional data concerning overvoltage during evolution of hydrogen on niobium and tantalum

SOURCE: Elektrokhimiya, v. 1, no. 6, 1965, 664-668

TOPIC TAGS: overvoltage, hydrogen evolution, niobium, tantalum

ABSTRACT: Hydrogen overvoltage, microhardness, and capacitance of the double layer on niobium and tantalum were studied with respect to duration of cathode polarization using a PMT-3 oscillograph. Overvoltage on the niobium cathode was measured at 25°C in 1N H_2SO_4 solution as a function of polarization duration. The current densities (i) were (a/m^2): 50, 100, 250, 500, and 1000. For all these current densities the dependence exhibited a steplike character. A drop in overvoltage occured after about 5-6 hours of polarization at $i = 50$ a/m^2 and after 0.5 hour at 1000 a/m^2. During 96 hour polarization at $i = 100$ a/m^2 in 1N H_2SO_4 solution at 25°C the microhardness of niobium increased from 200 to 300 kg/mm^2 and that of tantalum from 290 to 360 kg/mm^2. In all cases microhardness levelled off after a raise in the

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L 59536-65

ACCESSION NR: AP5016823

initial period. This was reflected in constancy of overvoltage and lattice parameter (from about 10^{-15} to 50 hours of polarization). The double layer capacitances of niobium (50-60 μf) and tantalum (10-15 μf) increased sharply and then levelled off after 30-40 hours of polarization at about 80 μf and 24 μf respectively. Orig. art. has: 2 tables, 3 figures.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad Institute of Technology)

SUBMITTED: 02Aug64 ENCL: 00 SUB CODE: GC

NO REF SOV: 009 OTHER: 000

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

L 9590-66 EWT(m)/EWP(w)/ETC/EWG(m)/T/EWP(t)/EWP(b)/ETC(m) DS/JD/WW/WB/EM

ACC NR: AP6000011 SOURCE CODE: UR/0080/65/038/011/2628/2623

90
86
B

AUTHOR: Rotinyan, A. L.

ORG: none

TITLE: Intervuz conference on electrochemistry

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 11, 1965, 2628

TOPIC TAGS: chemical conference, electrochemistry, corrosion, electrode

ABSTRACT: The Fourth Intervuz Conference on Electrochemistry was held from 31 May to 2 June 1965 at the Novocherkassk Polytechnical Institute under the joint sponsorship of the Ministry of Higher and Vocational Secondary Education, RSFSR, and the All-Union Chemical Society. About 260 papers were presented in fields of theoretical and applied electrochemistry. There were more than 450 participants at the Conference, representing vuzes of the Soviet Union, scientific research institutes of the Academy of Sciences USSR and of Union Republics, and specialized scientific research institutes. Three papers were singled out as the most interesting: A. I. Krasil'shchikov (Moscow). "Theory and applications of the oxygen electrode."; L. I. Antropov (Kiev). "Theoretical aspects of the action of corrosion inhibitors."; M. F. Skalozub, together with a team of scientists under his direction (Novocherkassk Polytechnical Institute). "Application of sound vibrations and alternating magnetic field in electrochemical technology." (This topic attracted special attention and was reported in Izvestiya on 3 Jun 1965 as a new and very promising field of

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ACC NR: AP6000011

electrochemistry). Other papers were presented and discussed at meetings of the sections on power sources, corrosion, electrolysis (other than metal deposition, hydroelectrometallurgy, and galvanotechniques. General directions for research work were issued by the Conference, and the next conference was tentatively scheduled for 1967 at the Dnepropetrovsk Chemicotechnological Institute.

ATD Press: 4141-F

SUB CODE: 07 / SUBM DATE: none

Card 2/2

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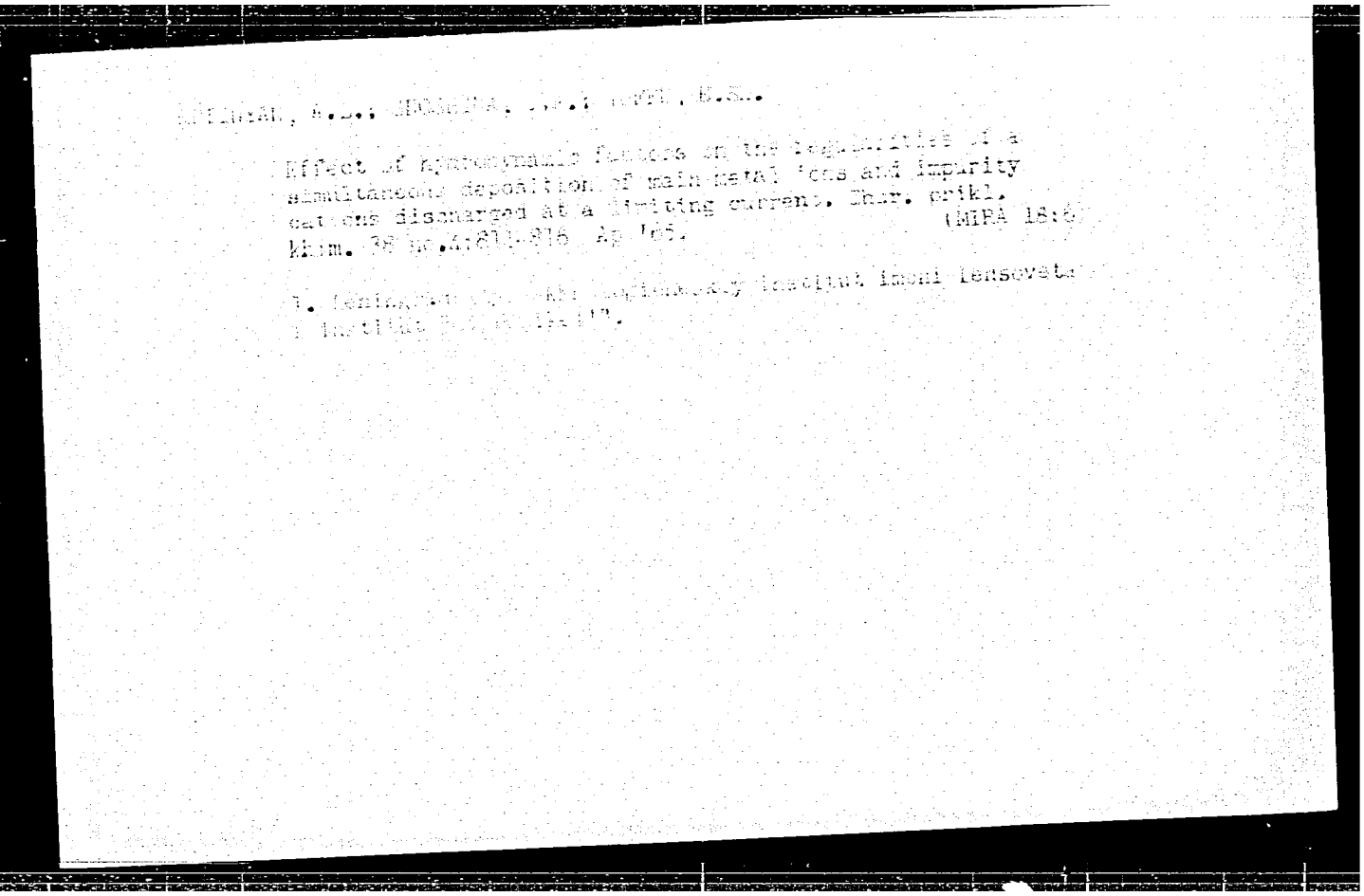

Effect of [illegible] forces on the [illegible] of a simultaneous deposition of main metal ions and impurity cations discharged at a limiting current. Zhur. prikl. khim. 38 no.4:811-816 Ap '65. (MIRA 18:6)

1. [illegible] Institut [illegible].

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

KOZHEVNIKOVA, N.M.; ROTINYAN, A.L.

Additional data on overvoltage during hydrogen evolution on niobium and tantalum. Elektrokhimiia 1 no.6:664-668 Je '65. (MIRA 18:7)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

SIMONOVA, M.V.; ROTINYAN, A.L.

Stepwise reactions in electrochemical kinetics. Usp.khim. 34 no.4:734-754 Ap '65. (MIRA 18:8)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYAN, A.L.

Interuniversity Conference on Electr[illegible]emistry in Novocherkask. Zhur.prikl.khim. 38 no.11:2628 N '65. (MIRA 18:12)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYAN, A.L.

Some possible mechanisms of the process of cathodic hydrogen evolution in an acid medium. Elektrokhimiia 1 no.10:1303-1304 O '65. (MIRA 18:10)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

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L 08455-67 EWT(m)/EWP(t)/ETI IJP(c) DS/JD/JG

ACC NR: AP6030898 (A) SOURCE CODE: UR/0080/66/039/008/1742/1747

AUTHOR: Ostrovidov, Ye. A.; Rotinyan, A. L.

ORG: Leningrad Technological Institute imeni Lensovet (Leningradskiy tekhnologicheskiy institut)

TITLE: Rate of hydrogen ionization on a half-immersed platinum electrode in an alkali hydroxide solution

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 8, 1966, 1742-1747

TOPIC TAGS: electric polarization, hydrogen, ionization, electrolyte

ABSTRACT: The object of the work was (1) to determine the polarization at an edge point of a half-immersed electrode and (2) study the influence of surface-active admixtures on the rate of hydrogen ionization. The upper part of the platinum wire electrode employed was in a hydrogen atmosphere, and the lower part was immersed in 7 N KOH. The derivative of the polarization of the edge point was found to increase with the polarization of the immersed part over a wide polarization range; this is attributed either to the fact that the electrolyte film becomes thinner in the dry part or to an increase in the density of the ionization current. It is shown that in the case of high polarizations, the series of experimental data obtained does not correlate with a film mechanism of hydrogen ionization. The data can be explained either in terms of kinetic hindrances caused by the slowness of the electrochemical stage,

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or, preferably, by the fact that the ionization of hydrogen does not occur on the entire surface of the electrode, but only on active centers. The factor determining the ionization rate is the supply of hydrogen to the active centers both through the electrolyte film and by migration in the σ phase of the electrode (from adsorption centers to ionization centers). In conclusion, authors thank V. S. Daniel'-Bek for a useful discussion of a number of problems touched upon in the study. Orig. art. has: 4 figures, 2 tables and 11 formulas.

SUB CODE: 07/ SUBM DATE: 19Jun65/ ORIG REF: 003/ OTH REF: 002

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYAN, L.A.

Thermodynamic study of certain laws of heterogenic equilibrium in ternary systems. Pt. 2. Izv.Sekt.fiz.-khim.anal. 17:64-72 '49. (MLRA 7:6)

1. Khimicheskiy institut Akademii nauk Armyanskoy SSR.
(Thermodynamics) (Phase rule and equilibrium)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYAN, L. A.

Cams

"Dynamic synthesis of twin cam mechanisms," Trudy Sem. teor. mash. 10 no. 40, 1951.

Monthly List of Russian Accessions, Library of Congress, October 1952, UNCLASSIFIED.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

Rotinyan, L. A.

Rotinyan, L. A. Construction of the positions of spatial three-link mechanisms. Akad. Nauk SSSR. Trudy Sem. Teorii Mašin i Mehanizmov 14, no. 53, 11–19 (1953). (Russian)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

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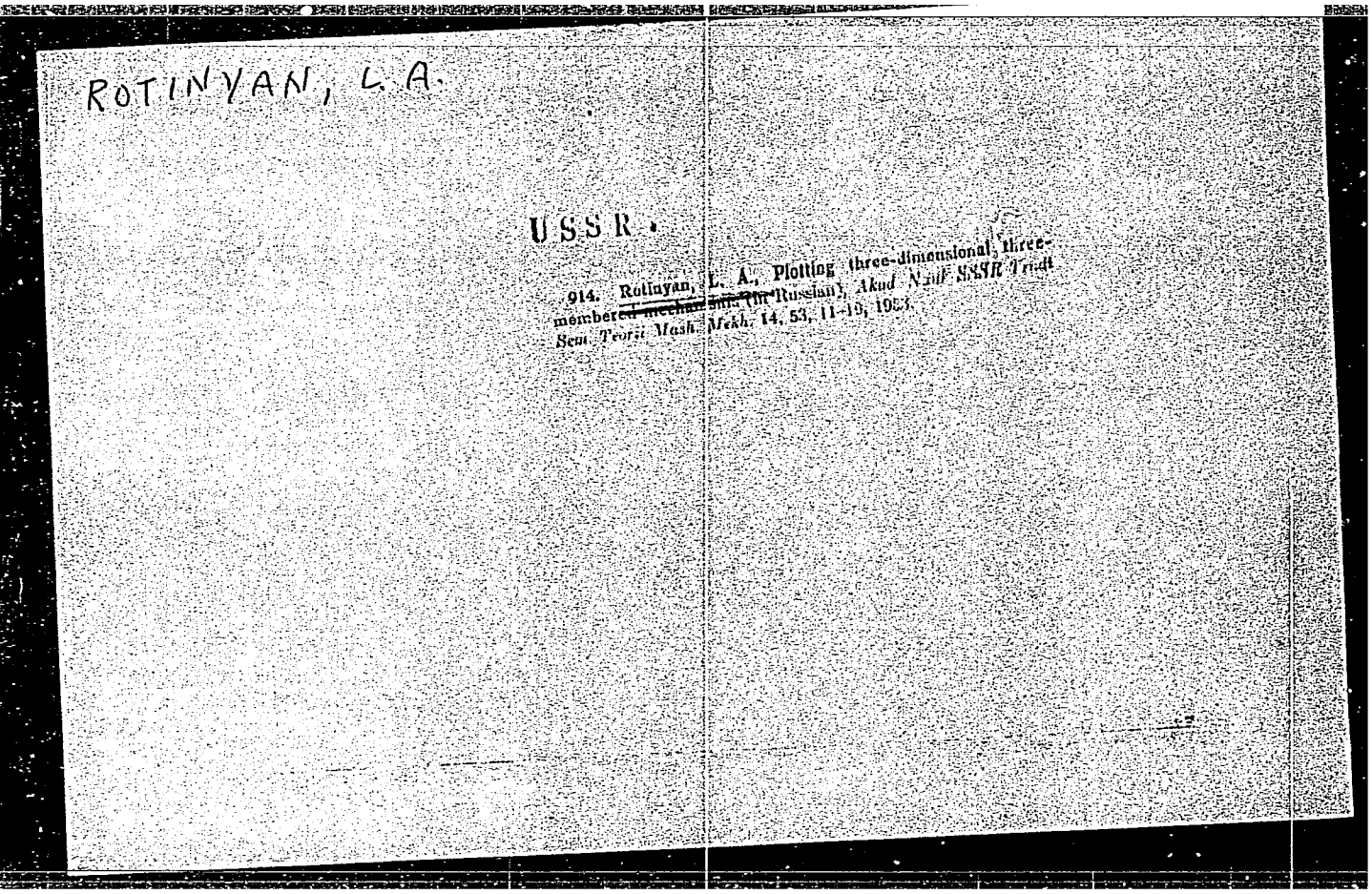

ROTINYAN, L.A.

USSR

914. Rotinyan, L. A., Plotting three-dimensional three-membered mechanisms (in Russian), Akad Nauk SSSR Trudy Sem. Teorii Mash. Mekh. 14, 53, 11-19, 1953.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

L 5311-66 EWT(d)/EWP(l) IJP(c) BC

ACC NR: AP5025695 SOURCE CODE: UR/0286/65/000/018/0043/0044

INVENTOR: Svecharnik, D. V.; Rotinyan, M. I.; Shidlovich, L. Kh.; Pavlenko, V. A.; Kelim, Yu. M.

ORG: none

TITLE: Servosystem driven with d-c signals [Announced by the Scientific Research Institute of Heat- and Power-Engineering Equipment (Nauchno-issledovatel'skiy institut teploenergeticheskogo priborostroyeniya). Class 21, No. 174687

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 43-44

TOPIC TAGS: signal processing, signal analysis, data processing equipment

ABSTRACT: This Author Certificate introduces a servosystem driven with d-c signals (see figure). For simplicity and improved reliability, the stator winding of the

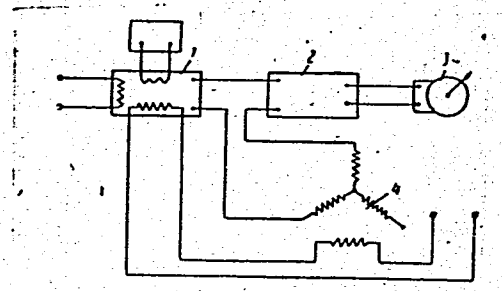

Fig. 1. Signal converter

1 - Push-pull magnetic modulator; 2 - a-c power amplifier; 3 - reversible motor; 4 - feedback pickup.

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62-523.2

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transmitting selsyn and the power supply winding of the magnetic modulator are series connected, while the winding of the selsyn rotor is connected in series with the modulator output. Orig. art. has: 1 figure. [DW]

SUB CODE: IE, EE SUBM DATE: 18May64/ ATD PRESS: 4135

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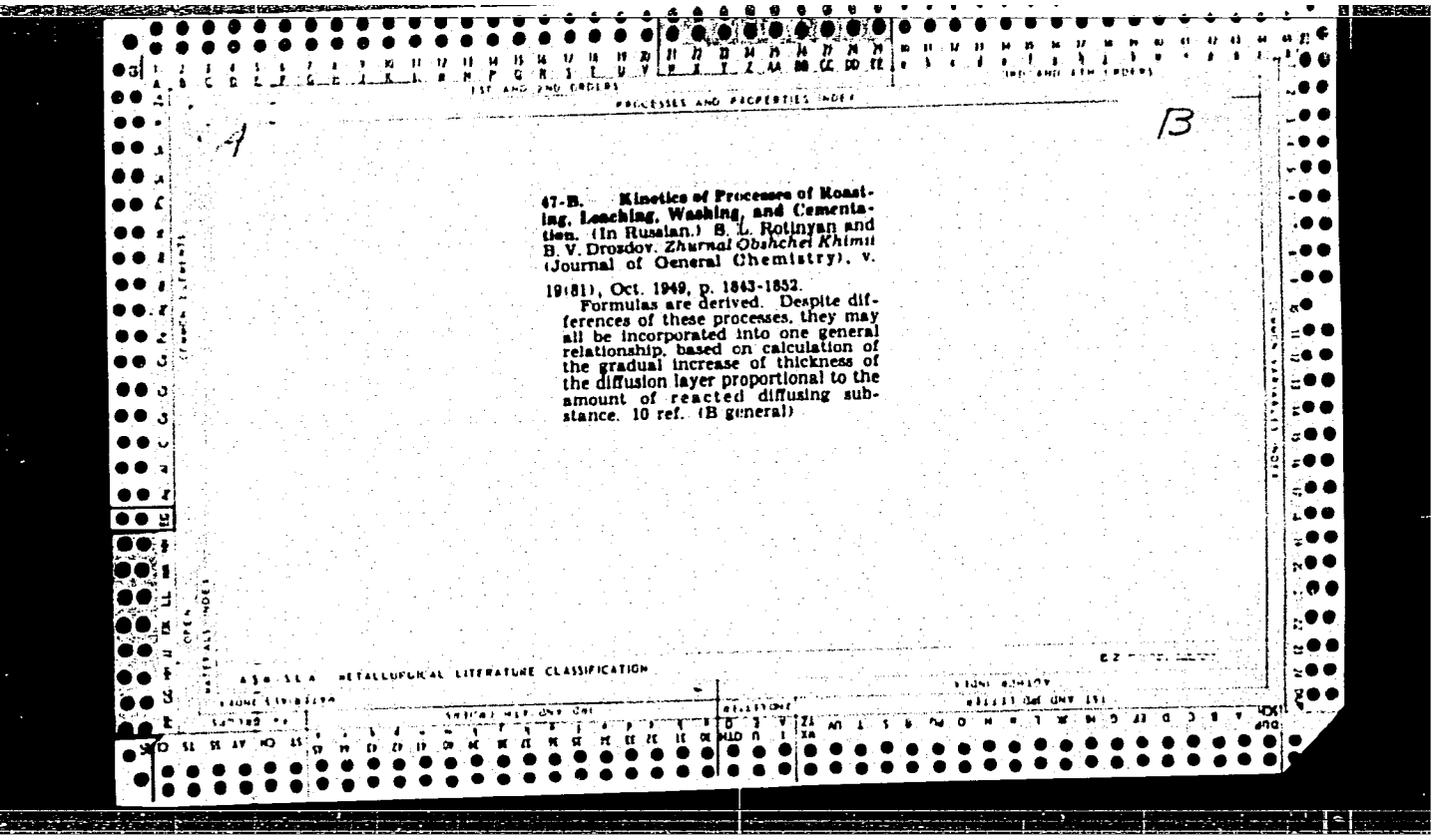

47-B. **Kinetics of Processes of Roasting, Leaching, Washing, and Cementation.** (In Russian.) B. L. Rotinyan and B. V. Drozdov. *Zhurnal Obshchei Khimii* (Journal of General Chemistry), v. 19(81), Oct. 1949, p. 1843-1852.

Formulas are derived. Despite differences of these processes, they may all be incorporated into one general relationship, based on calculation of the gradual increase of thickness of the diffusion layer proportional to the amount of reacted diffusing substance. 10 ref. (B general)

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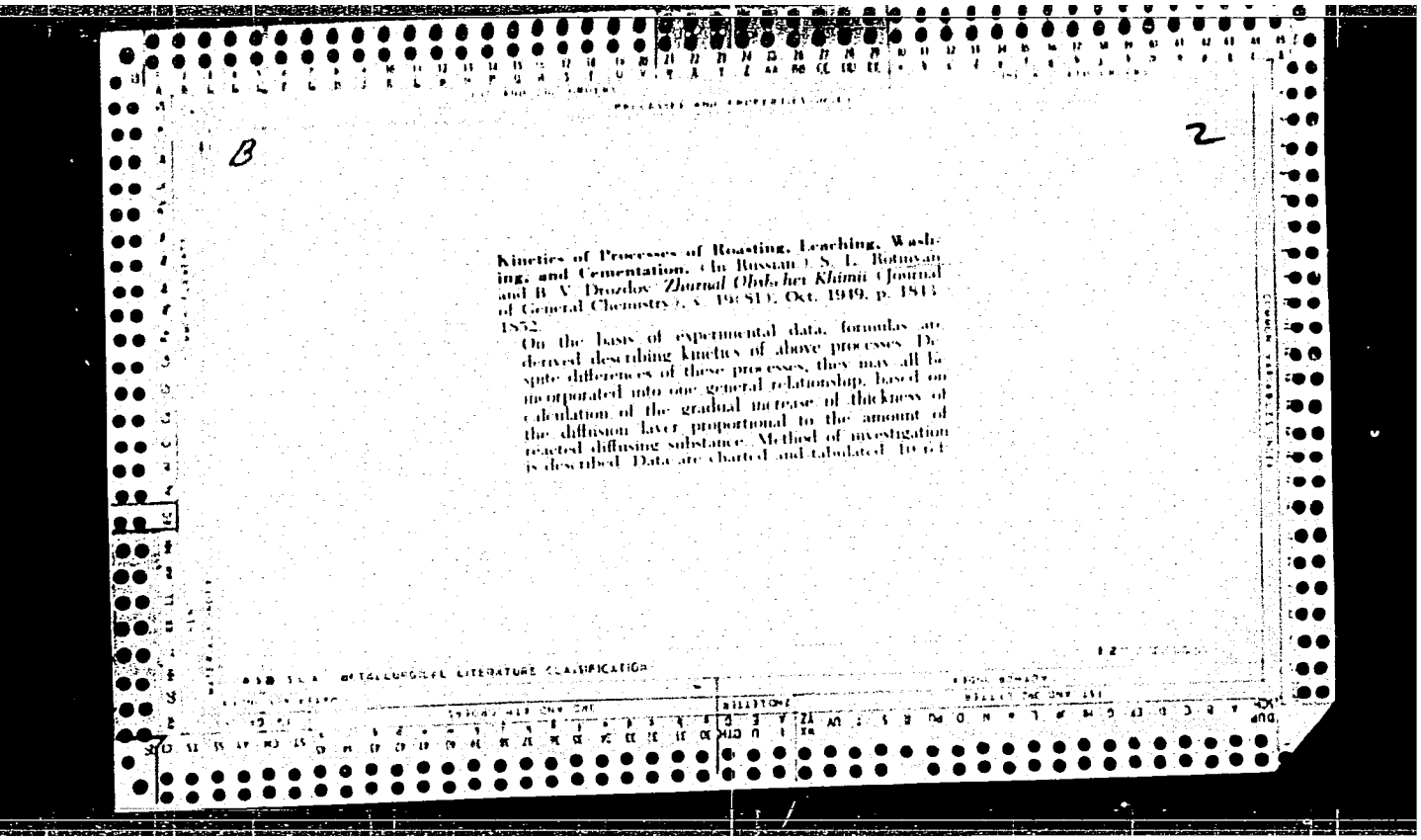

Kinetics of Processes of Roasting, Leaching, Washing, and Cementation. (In Russian.) S. I. Bolnyasin and B. V. Drozdov. *Zhurnal Obshchei Khimii* (Journal of General Chemistry), v. 19, no. 10, Oct. 1949, p. 1813-1852.

On the basis of experimental data, formulas are derived describing kinetics of above processes. Despite differences of these processes, they may all be incorporated into one general relationship, based on calculation of the gradual increase of thickness of the diffusion layer proportional to the amount of reacted diffusing substance. Method of investigation is described. Data are charted and tabulated. 10 ref.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYAN, Ye.A.

Manufacture of dyes in capitalistic countries. Khim. nauka i prom. 3 no.2:263-267 '58. (MIRA 11:6)
(Dyes and dyeing)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

DOBROVOL'SKIY, S., inzh.; PAL'GIN, V., inzh.; BIRILOV, O., inzh.; IVASHCHENKO, A., inzh.; RABINOVICH, S., inzh.; ROTINYANTS, A., inzh.; SYROVATKINA, K., starshiy inzh.

Letters to the editor. Stroitel' no.11:11 N '60. (MIRA 13:11)

1. Trest Stalinzhilstroy No.1 (for Syrovatkina).
(Construction industry)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYANTS, A.A.

Heat and moisture treatment of prestressed bridge spans. Izv. AN Arm. SSR. Ser. tekh. nauk 18 no. 2:66-67 '65. (MIRA 18:12)

1. Rostovskiy institut inzhenerov zheleznodorozhnogo transporta. Submitted Jan. 5, 1965.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYANTS, A.A.

Investigating technological processes of the manufacture of prestressed bridge-span structures. Izv. AN Arm. SSR. Ser. tekh. nauk 16 no.6:49-56 '63. (MIRA 17:1)

1. Rostovskiy institut inzhenerov zheleznodorozhnogo transporta.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYANTS, A.A.

Experiments in making prestressed concrete beams for bridges. Izv. AN Arm. SSR. Ser. tekh. nauk 16 no.4:61-64 '63. (MIRA 16:10)

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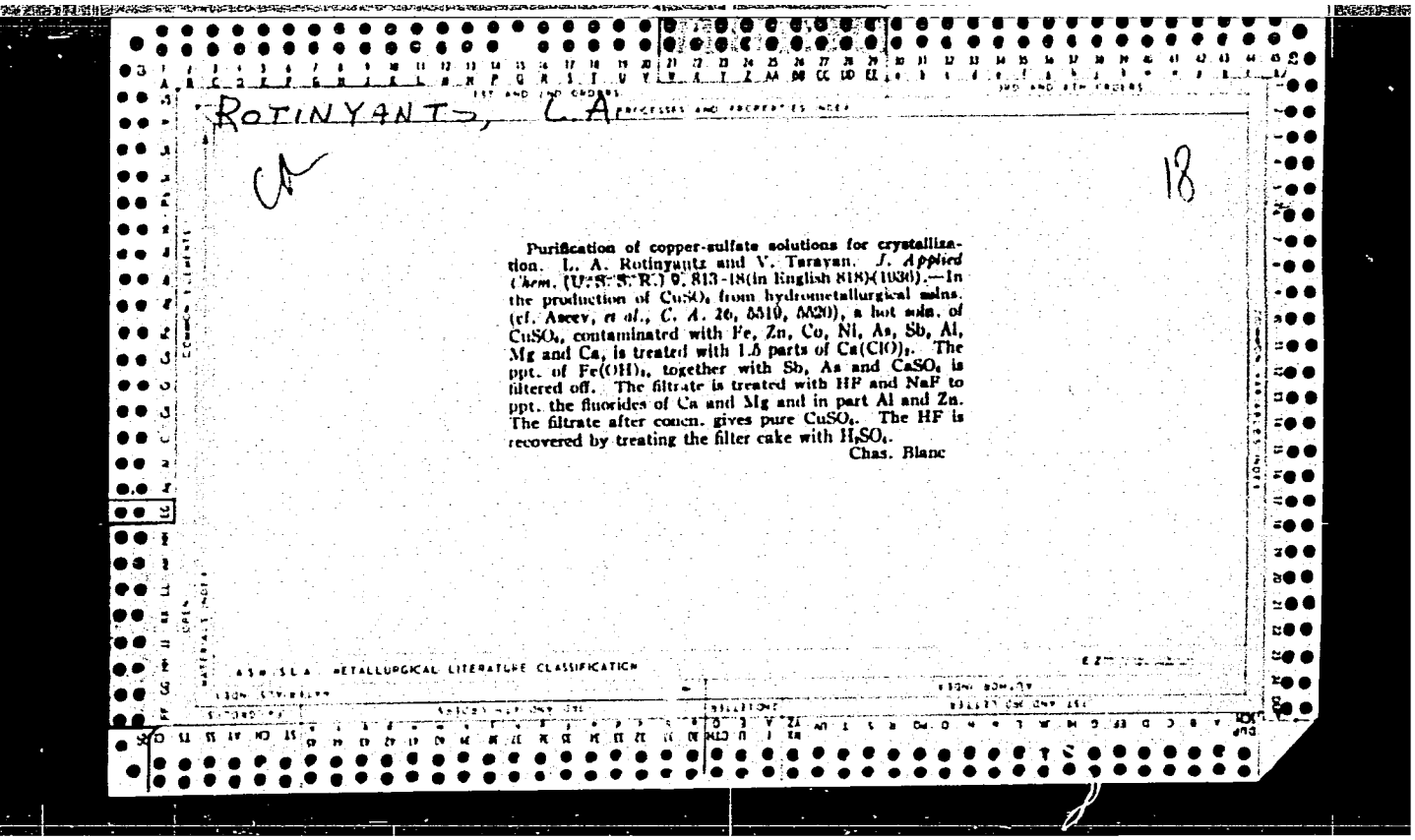

ROTINYANTS, L. A.

18

Purification of copper-sulfate solutions for crystallization. L. A. Rotinyantz and V. Tarayan. *J. Applied Chem.* (U.S.S.R.) 9, 813-18(in English 818)(1936).—In the production of $CuSO_4$ from hydrometallurgical solns. (cf. Aseev, *et al.*, *C. A.* 26, 5510, 6020), a hot soln. of $CuSO_4$, contaminated with Fe, Zn, Co, Ni, As, Sb, Al, Mg and Ca, is treated with 1.5 parts of $Ca(ClO)_2$. The ppt. of $Fe(OH)_3$, together with Sb, As and $CaSO_4$ is filtered off. The filtrate is treated with HF and NaF to ppt. the fluorides of Ca and Mg and in part Al and Zn. The filtrate after concn. gives pure $CuSO_4$. The HF is recovered by treating the filter cake with H_2SO_4.

Chas. Blanc

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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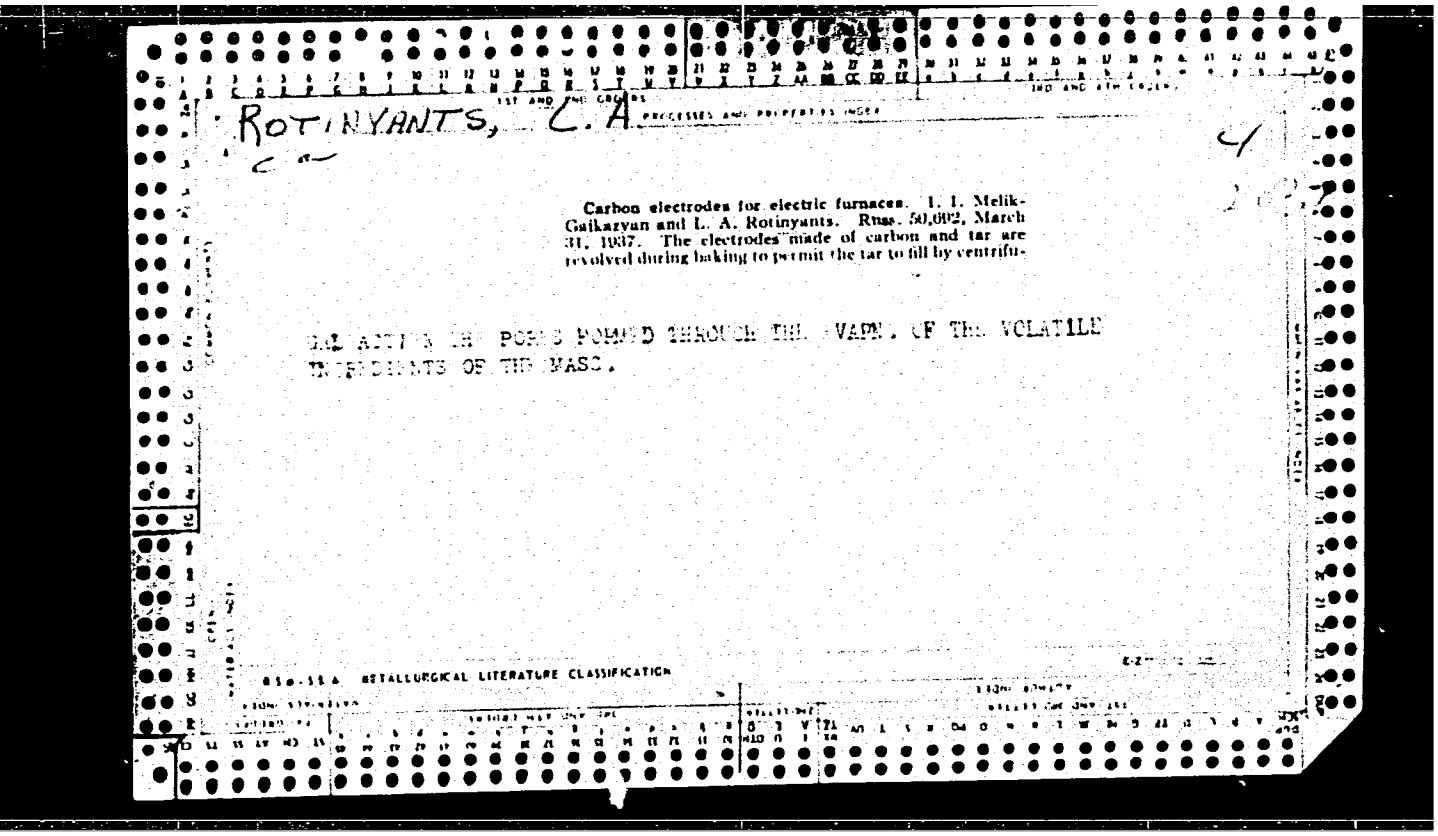

ROTINYANTS, L. A.

Carbon electrodes for electric furnaces. I. I. Melik-Gaikazyan and L. A. Rotinyants. Russ. 50,092, March 31, 1937. The electrodes made of carbon and tar are revolved during baking to permit the tar to fill by centrifu-

GAS ACTION IN PORES FORMED THROUGH THE EVAPN. OF THE VOLATILE INGREDIENTS OF THE MASS.

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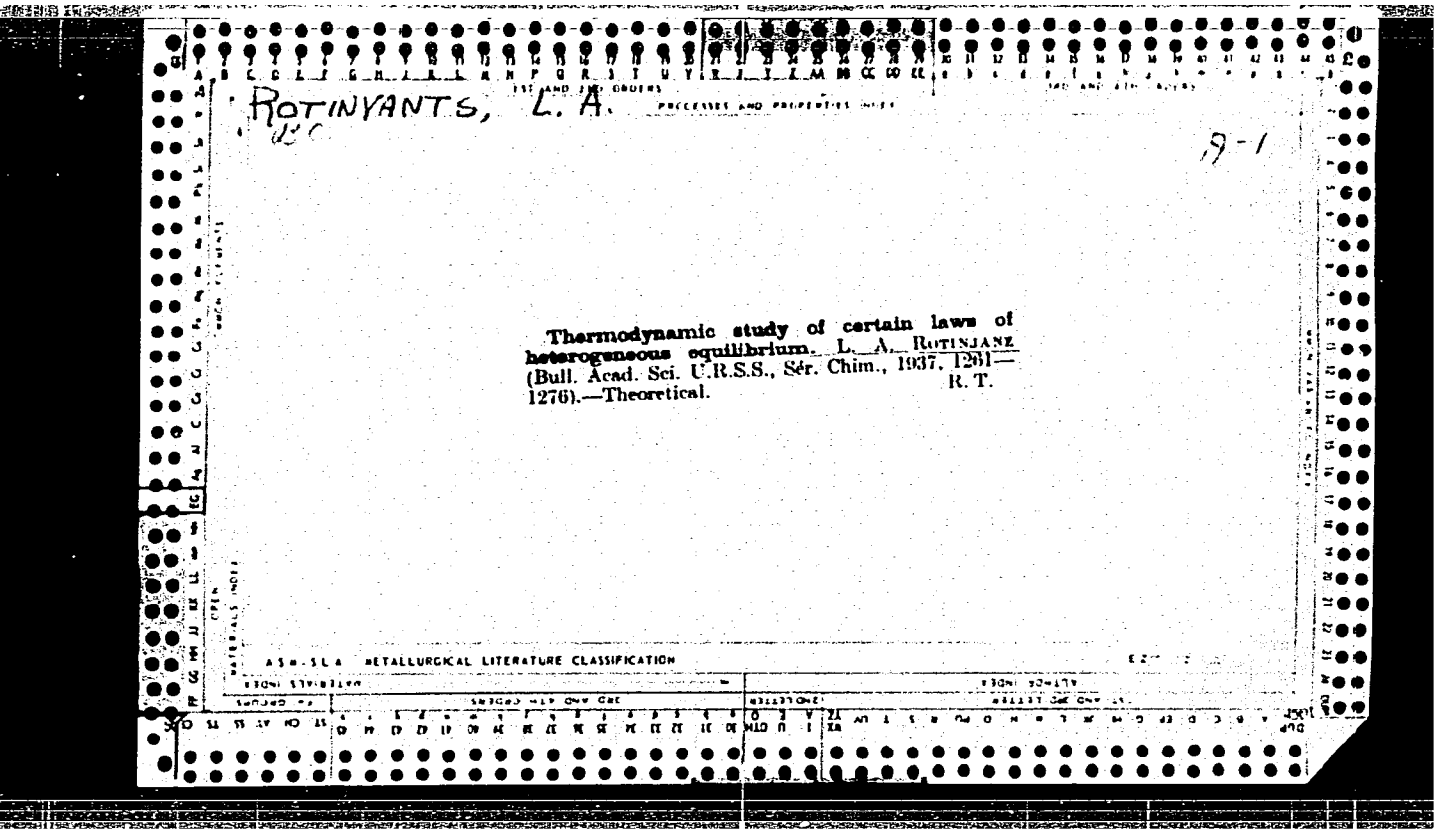

ROTINYANTS, L. A.

9-1

Thermodynamic study of certain laws of heterogeneous equilibrium. L. A. ROTINJANZ (Bull. Acad. Sci. U.R.S.S., Sér. Chim., 1937, 1261—1276).—Theoretical. R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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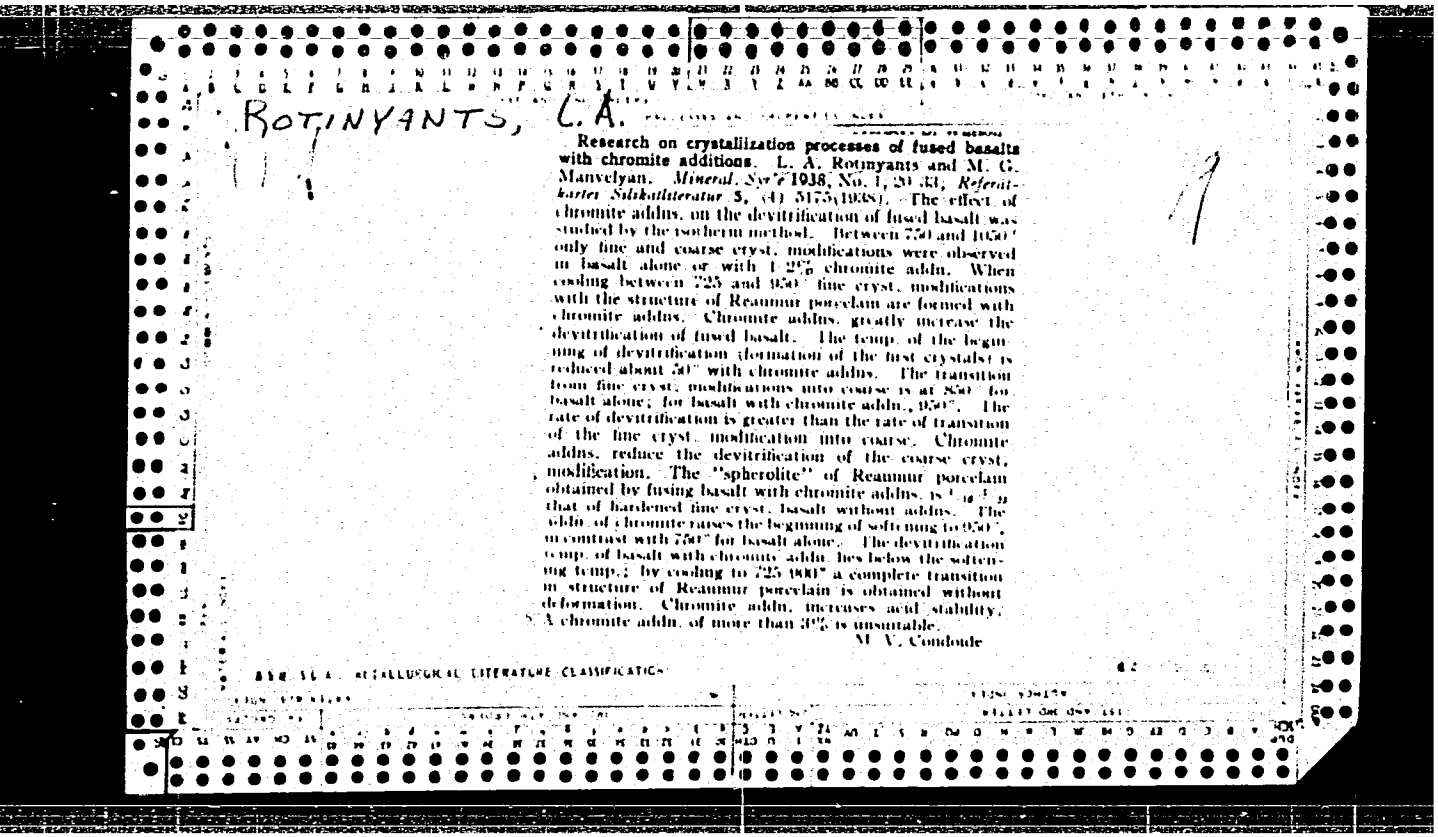

ROTINYANTS, L.A.

Research on crystallization processes of fused basalts with chromite additions. L. A. Rotinyants and M. G. Manvelyan. *Mineral. Syr'ë* 1938, No. 1, 20-31; *Referat-karter Silikatlitteratur* **5**, (4) 5175(1938). The effect of chromite addns. on the devitrification of fused basalt was studied by the isotherm method. Between 750 and 1050° only fine and coarse cryst. modifications were observed in basalt alone or with 1-2% chromite addn. When cooling between 725 and 950° fine cryst. modifications with the structure of Reaumur porcelain are formed with chromite addns. Chromite addns. greatly increase the devitrification of fused basalt. The temp. of the beginning of devitrification (formation of the first crystals) is reduced about 50° with chromite addns. The transition from fine cryst. modifications into coarse is at 850° for basalt alone; for basalt with chromite addn., 950°. The rate of devitrification is greater than the rate of transition of the fine cryst. modification into coarse. Chromite addns. reduce the devitrification of the coarse cryst. modification. The "spherolite" of Reaumur porcelain obtained by fusing basalt with chromite addns. is $\frac{1}{10}$ to $\frac{1}{5}$ as that of hardened fine cryst. basalt without addns. The addn. of chromite raises the beginning of softening to 950°, in contrast with 750° for basalt alone. The devitrification temp. of basalt with chromite addn. lies below the softening temp.; by cooling to 725-800° a complete transition in structure of Reaumur porcelain is obtained without deformation. Chromite addn. increases acid stability. A chromite addn. of more than 3% is unsuitable.

M. V. Condoide

ASM SLA - METALLURGICAL LITERATURE CLASSIFICATION

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ROTINYANTS, L. A.

4
4E3d

Specific volumes of two coarsely dispersed binary systems: Al-S and Al-ZnO. L. A. Rotinyants. *Zhur. Neorg. Khim.* 2, 830–44(1957); cf. preceding abstr.—The sp. vols. were detd. for the powd., monodispersed systems Al–S and Al–ZnO for the compn. range 0–100% Al. The sp. vol. in coarsely dispersed systems is represented by the equation $V = V_T + V_M$, where V_T is the vol. of the solid phase and V_M is the intergrain vol. V_M serves as a quant. measure of the degree of openwork of coarsely dispersed binary systems. The exptl. data support the theoretical concepts discussed in the preceding abstr. J. Rovtar Leach

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ROTINYAN, L.A., dotsent.

Double cam mechanisms. Trudy TbILZHT no.22:310-336 '50.(MLRA 9:11)
(Cams)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

CA ROTINYANTS, L. A.

2

Thermodynamic investigation of some laws of heterogeneous equilibrium in ternary systems. II. L. A. Rotinyants. *Izvest. Sektora Fiz.-Khim. Anal., Inst. Obshchel i Neorg. Khim., Akad. Nauk S.S.S.R.* 17, 64-72(1949); cf. *C.A.* 42, 3241[i].—An analysis of triangular diagrams with parabolic binodal curves separating the homogeneous area from the heterogeneous area where sepn. into layers takes place. The concn. of a distributed substance in one phase, the length of connodes, and the angles they form with the side of a compn. triangle are related to the distribution coeff. and to the molar max. work of distribution through $K_i = 1 - (H/x_i'') \sin \theta$ and $U_i = RT \ln [1 - (H/x_i'') \sin \theta]$, where K_i is the distribution coeff., H is the length of the connode, θ is the angle that it forms, x_i'' is the mole fraction in phase ('') and U_i is the isothermal max. work of transferring 1 mol. of substance from phase (') to phase (''). Various types of diagrams (connodes parallel to side of triangle, parallel to one another, and arranged fanlike) are analyzed. In a 3-component system none of the components can have equal concns. or mole fractions in 2 existing liquid phases. M. Hoseh

1951

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYAN, L. A.

22357. ROTINYAN, L. A. Termodinamicheskoye issledovaniye nekotorykh zakanov geterogennogo ravnovesiya v trojnykh sistemakh. ch. 2 Izvestiya sektora fiz.-khim. analiza (in-t obshchey i neorgan khimii im. kurnakova), T. XVII, 1949, s. 64-72.- Bibliogr: s. 72.- Ch. i: izvestiya akad. nauk sssr-imen, seriya khim. No. 5, 1937

SO: LETOPIS' No. 30, 1949

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

S/119/63/000/002/006/014
A004/A127

AUTHOR: Rotinyan, N.I.

TITLE: Self-compensating converters of alternating voltage into direct current

PERIODICAL: Priborostroyeniye, no. 2, 1963, 13 - 15

TEXT: The author gives a description of an original self-compensating converter of alternating voltage into direct current which has been developed at the NIITeplopribor and was granted the author's certificate No. 145934 of November 30, 1960, mentioned in the "Byulleten' izobreteniy", no. 7, 1962. He presents the block diagram of the device in which the РД-09 (RD-09) reversible motor and a selsyn is used. Moreover, a description of another converter of alternating voltage into direct current is given, which has also been developed by NIITeplopribor but in the circuit of which neither a motor nor a selsyn is used. This second converter model is more simple in manufacture than the former type, but requires a more careful control and adjustment. There are 3 figures.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTINYANTS, A.A.

Calculation of structural stresses in the beams of prestressed reinforced concrete bridge spans. Izv. AN Arm. SSR. Ser. tekh. nauk 17 no.6:47-52 '64. (MIRA 18:3)

1. Rostovskiy institut inzhenerov zheleznodorozhnogo transporta.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTKHAMMEL', K. (DM2ABK) (Germanskaya Demokraticheskaya Respublika)

New amateur shortwave antennas. Radio no.11:20-23 N '65.
(MIRA 18:12)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

No. 1 KHARKOV, L.

24(1) P-3 PHASE I BOOK EXPLOITATION SOV/3352

Vserossiyskaya konferentsiya professorov i prepodavateley pedagogicheskikh institutov.

Primeneniye ul'traakustiki k issledovaniyu veshchestva; trudy konferentsii, vyp. 8 (Application of Ultrasonics in the Study of Matter; Transactions of a Conference, Nr. 8) Moscow, Izd. MOPI, 1959. 170 p. 1,000 copies printed.

Tech. Ed.: S. P. Zhitov.

PURPOSE: The book is intended for physicists, particularly those specializing in the field of ultrasonics.

COVERAGE: This is a collection of 12 articles dealing with problems of acoustics, ultrasonics, and molecular physics. References are given at the end of each article.

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Predvoditelev, A. S. Dispersion of Acoustic Waves in Rarefied Gases. Article I. 19

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Ilgunas, V., and E. Yaronis. On the Theory of Interferometers With Variable and Constant Length 67

Trelin, Yu. S. Some Results of Measurement of Ultrasonic Velocity in Gases by the Pulse Method 75

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Akhmetzyanov, K. G., and M. G. Shirkevich. Ultrasonic Velocity in Compressed Vapors of Ethyl Alcohol and Determination of Heat Capacities C_p and C_v 93

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Shilyayev, A. S., and B. B. Kudryavtsev. Ultrasonic Velocity and Surface Tension in Ternary Liquid Systems 121

Bessonov, M. B. Measuring Ultrasonic Velocity and Absorption in Solutions at High Temperatures 137

Senkevich, A. A. Propagation and Absorption of Ultrasonic Waves in Gases and Liquids in the Light of Molecular-Kinetic Conceptions 147

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

Application of Ultrasonics (Cont.) SOV/3352

Kudryavtsev, B. B. Fifth Seminar on Acoustics in Olsztyn 169

AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTKHOLTS, E.

Vibrating circle. p. 21.
(Radio, Vol. 5, no. 12, 1956, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957, Uncl.

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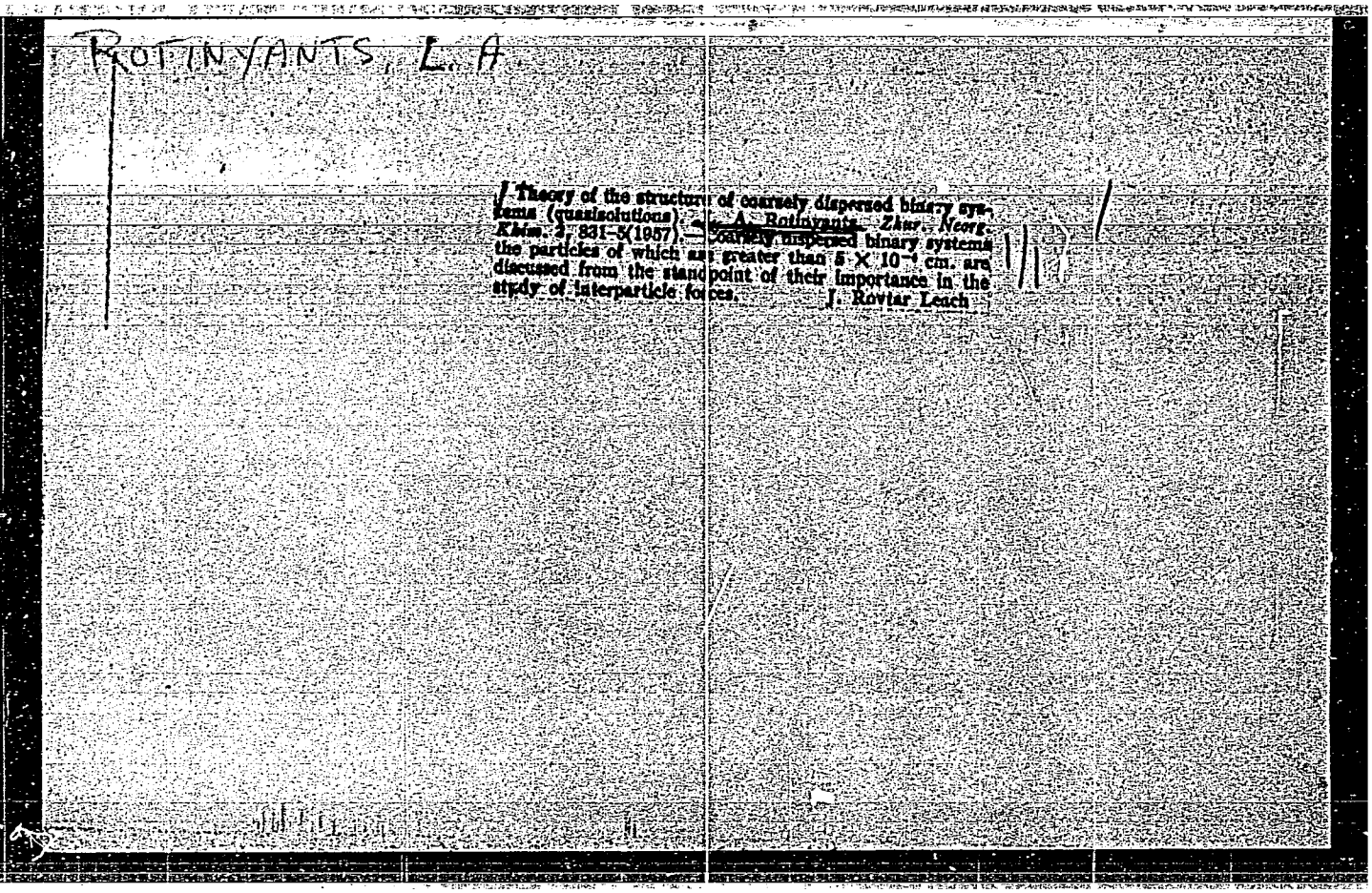

ROTINYANTS, L. A.

Theory of the structure of coarsely dispersed binary systems (quasisolutions). — L. A. Rotinyants. *Zhur. Neorg. Khim.* 2, 831–5(1957). — Coarsely dispersed binary systems the particles of which are greater than 5×10^{-4} cm. are discussed from the standpoint of their importance in the study of interparticle forces. — J. Rovtar Leach

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ROTKHOLTS, E.

Feeding without chokes. Ministry and Communication, #12:40:Dec. 54

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

TATKIEWICZ, A

PHASE I BOOK EXPLOITATION POL/4356

Polskie towarzystwo matematyczne

Prace Matematyczne, Seria I. IV (Mathematical Transactions, Series I, vol.IV) Warsaw, Państwowe wyd-wo naukowe, 1960. 140 p. 1,075 copies printed.

Editorial Board: Władysław Orlicz (Chief Ed.), Marceli Stark, (Deputy Chief Ed.), Adam Bielecki, Witold Bogdanowicz, Stanisław Gołąb, Jerzy Górski, Stanisław Hartman, Julian Musielak (Secretary), Zbigniew Semadeni, and Krzysztof Tatarkiewicz.

PURPOSE: This book is intended for mathematicians.

COVERAGE: This is a collection of 12 articles dealing with algebra, analysis, theory of numbers, probability theory, and geometry. Summaries in Russian and English or Russian and French are given after each article. No personalities are mentioned. References follow most of the articles.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTKIEWICZ, A. (Warszawa)

On the numbers of the form $\frac{(4k+1)^{4k+1}-1}{4k}$, $\frac{(4k+3)^{4k+3}+1}{4k+4}$. Rocz prace matem 5:95-99 '61.

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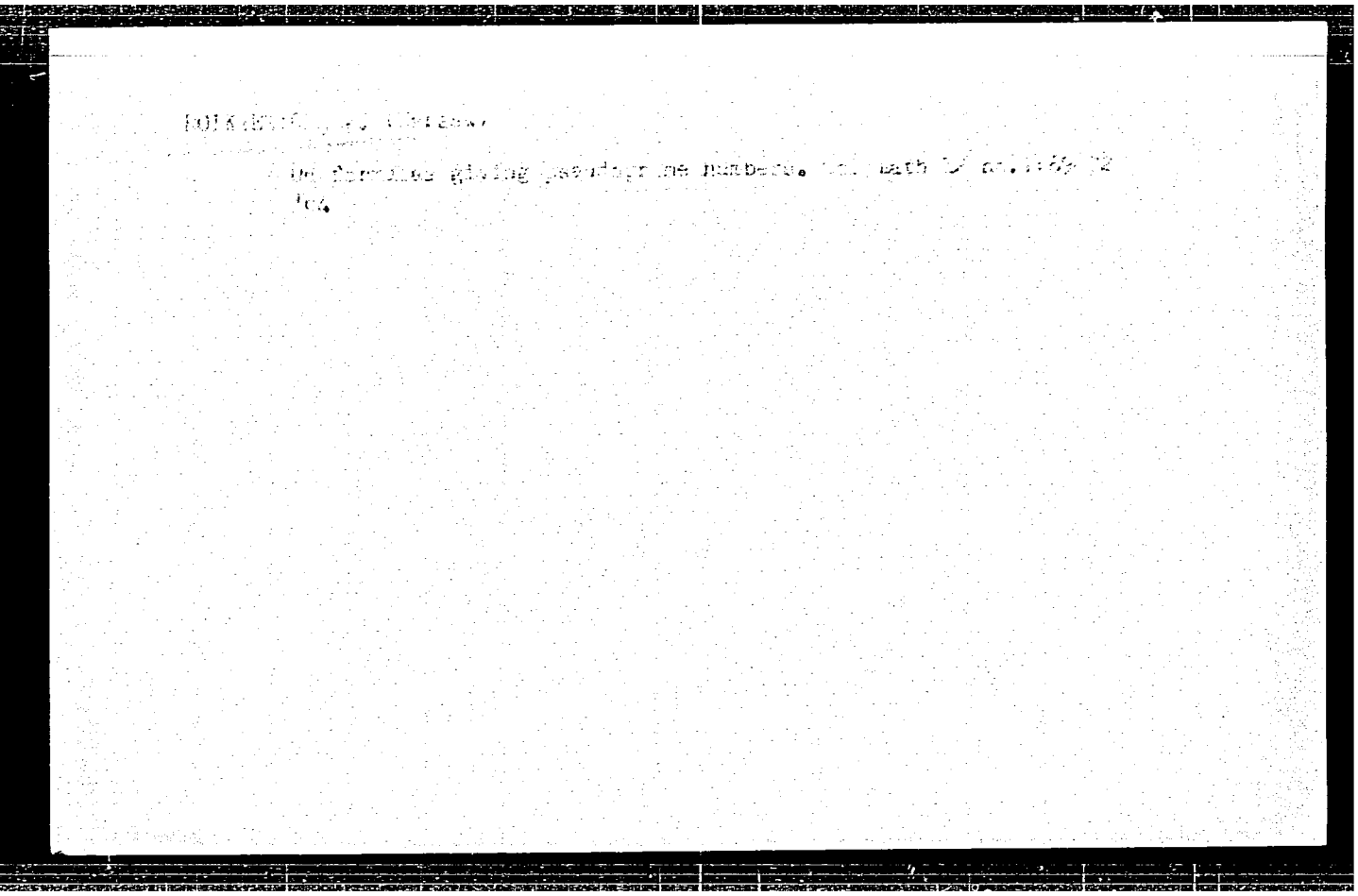

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTKIEWICZ, A.

On Lucas numbers with two intrinsic prime divisors. Bul Ac Pol mat 10 no.5:229-232 '62.

1. Institute of Mathematics, Polish Academy of Sciences, Warsaw. Presented by W. Sierpinski.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTKIEWICZ, A.(Warszawa)

On the properties of the expression $a^n + b^n$. Rocz prace matem 6:1-20 '6.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTKIEWICZ, A. (Warszawa)

On the properties of the expression $a^n \pm b^n$. Rocz prace matem 6:1-20 '61.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTKIEWICZ, A. (Warsaw)

On some generalizations of pseudoprime numbers. Colloquium mathem 9 no. 1:109-113 '62.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTKIEWICZ, A.

Rotkiewicz, A. Sur l'équation $x^z - y^t = a^t$, où $|x-y|=a$. Ann. Polon. Math. 3 (1956), 7–8.

A theorem of G. D. Birkhoff and Vandiver [Ann. of Math. (2) 5 (1904), 173–180] states that if a, b, n are natural numbers, $a>b$, $(a, b)=1$, $n>2$, then $a^n - b^n$ is divisible by at least one prime p such that p does not divide any of the integers $a^r - b^r$ $(r=1, 2, \cdots, n-1)$; the case $a=2$, $b=1$, $n=6$ provides the sole exception. From this the author concludes, by a very short and simple argument, that the equation $x^z - y^t = a^t$, where a is an integer, has no integer solutions x, y, z, t greater than 1, other than $x=3$, $y=2$, $z=2$, $t=3$, such that $|x-y|=a$ and $(x, y)=1$. If $a=1$, we arrive again at the theorem discussed in the preceding two reviews. *H. Halberstam* (Exeter).

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTKIEWICZ, A.

PHASE I BOOK EXPLOITATION POL/5753

Polskie Towarzystwo Matematyczne

Prace matematyczne (Mathematical Transactions) Warsaw, Państwowe Wydawn. Naukowe, 1961. 186 p. (Series: Its: Roczniki. Seria I., [no] 5) 1,500 copies printed.

Editorial Board: Chief Ed.: Władysław Orlicz; Deputy Chief Ed.: Marceli Stark, Adam Bielecki, Witold Pogorzelski, Stanisław Gołąb, Jerzy Górski, Stanisław Hartman; Secretary: Julian Musielak, Zbigniew Semadeni, Wawrzyniec Waterkiewicz.

PURPOSE: This book is intended for mathematicians.

COVERAGE: This is a collection of 14 articles on the theory of functions, theory of numbers, theory of series, functional analysis, differential equations, and their applications to hydrodynamics and thermodynamics. No personalities are mentioned. References follow each article.

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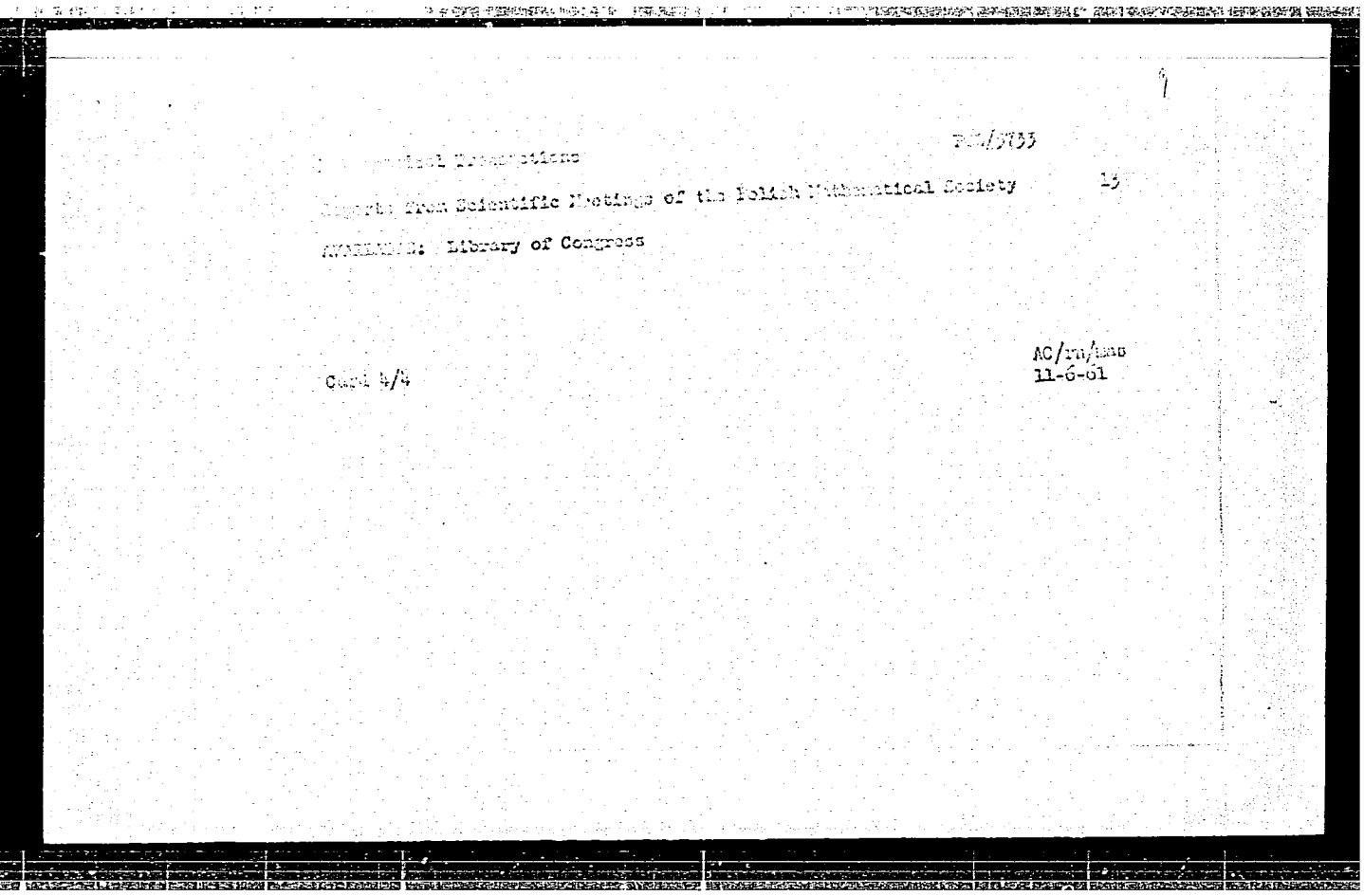

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTKIEWICZ, Krystyna, mgr.,inz.

Problems connected with the selfpurification of water. Gosp wodna 22 no.2:81-82 F '62.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

23513
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D235/D301

9,4310

AUTHOR: Rotkiewicz, P., Master of Engineering

TITLE: An instrument for measuring the coefficient of noise in junction transistors

PERIODICAL: Przegląd telekomunikacyjny, no. 12, 1960, 384

TEXT: The instrument was developed and designed at the Instytut tele-radiotechniczny (Tele-Radioengineering Institute). It is a laboratory instrument measuring the coefficient of noise as a function of frequency, source resistance and working point of the transistor. Measurement is based on a comparison between a standard noise potential generated in a noise generator and that of the transistor. The block diagram of the instrument is shown in Fig. 1. Standard noise potential is fed through an attenuator regulated between 0-100 dB, every 1 dB to the input circuit of the tested transistor, used as resistance amplifier. The block within the dotted line represents a selective voltmeter for noise potential. To measure the coefficient of noise at a given frequency one tunes

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D235/D301

An instrument for measuring...

the voltmeter to this frequency and adjusts π -attenuator to a value for which the noise potential fed into the transistor is doubled. Noting the deflection of the voltmeter, switch P_2 is changed from position 1 to position 2, with the noise potential cut-off, thus connecting to the noise generator and the attenuator is again adjusted to obtain the same deflection of the voltmeter. Noise coefficient F can be expressed by F [dB] = A [dB] - N [dB] where A [dB] - constant value, expressed in decybels corresponding to the particular value of R_o N [dB] - attenuation of π - attenuator expressed in decybels. The specifications of the instrument are: Frequency range: 100 k/c - 20 M/c; Useful frequency band of the

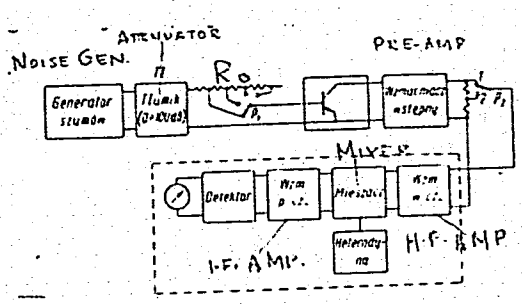

Fig. 1

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ROTKIEWICZ, Pawel

Modified Flack test. Acta physiol. polon. 5 no.4:563-565 1954.

1. Z Zakladu Fizjologii Instytutu Naukowego Kultury Fizycznej w Warszawie.
(RESPIRATION, function tests.
Flack's test, modified technic)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

L 34455-66

ACC NR: AP6026192 SOURCE CODE: PO/0022/65/000/001/0017/0022

AUTHOR: Dabrowski, Krzysztof (Master engineer); Rotkiewicz, Piotr (Master engineer)

ORG: none

TITLE: Survey of modern designs of transistorized FM radio receivers

SOURCE: Przeglad elektrotechniczny, no. 1, 1965, 17-22

TOPIC TAGS: FM receiver, transistorized circuit

ABSTRACT: The article gives a description of the circuitry and the operating characteristics of four radio receiver set models. Three of them are of the AM/FM type, namely the "Coupe" by Philips Co, the automobile receiver by RCA and the automobile receiver by Amperex Electronic Corp; the fourth model is a UHF FM receiver by Texas Instruments. The common features of all these transistorized models are discussed and their differences are pointed out. The use of mesa transistors for the UHF component is mentioned. The UHF tuner consists usually of two stages, sometimes of three stages. In most European models all input stages are untuned and matched for passing a wide band, while most American have all three stages tuned: input, output and the heterodyne circuit. Orig. art. has: 4 figures. [JPRS]

SUB CODE: 09 / SUBM DATE: none

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

DABROWSKI, Krzysztof, mgr inz.; ROTKIEWICZ, Piotr, mgr inz.

Review of recent designing solutions of FM radio transistor receivers. Przegl telekom 37 no.1:17-22 Ja '65.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTKIEWICZ, Piotr, mgr. inz.

Tunnel diode tuned amplifier. Prace Inst. teletechn. 6 no.4: 3-36 '62

1. Instytut Tele- i Radiotechniczny, Warszawa

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTKIEWICZ, W

621.317.7 : 621.396.822

2495. NOISE LEVEL METER. W. Rotkiewicz. Prace Inst. Łączności, Vol. 3, No. 1, 41-51 (1956). In Polish.

Describes a new type of noise level meter and its characteristic properties. The block diagram and the separate stages are discussed. The problem of internal noise and the adoption of a new input circuit having a very low level of internal noise is also discussed. This circuit contains a multiple high-pass filter of the RC type. A method of calibration of a voltage-measuring instrument by means of a standard LCR resonant circuit is described. A.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8

ROTKIEWICZ, W.

A scientific conference in Llmenau and service against interference in the German Democratic Republic.

p. 181 (Przeglad Telekomunikacyjny) Vol. 30, no. 6, June 1957, Warszawa, Poland

SO: MONTHLY INLEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445510003-8"